

I CLAIM:

1. An incinerator for incinerating solid wastes,  
comprising:

a furnace that defines a combustion chamber  
5 therein;

a feed supply adapted for containing the solid  
wastes therein;

a feed-delivering conduit connected to said feed  
supply and said furnace so as to permit delivery of  
10 the solid wastes into said combustion chamber;

an air supply connected to said furnace for  
supplying air into said combustion chamber; and

an air distributor that is disposed in said  
combustion chamber, that is connected to said air  
15 supply, and that has an elongated segment which  
extends in a longitudinal direction the same as a flow  
direction of combustion gases in said combustion  
chamber, and which is formed with a plurality of  
spaced apart holes distributed along said  
20 longitudinal direction, each of said holes opening  
in a transverse direction relative to said  
longitudinal direction so as to permit uniform  
distribution of air into said combustion chamber.

2. The incinerator of Claim 1, wherein said air supply  
25 includes an air blower, and an air conduit connected  
to said air blower and said furnace.

3. The incinerator of Claim 2, wherein said air

distributor is in the form of an L-shaped pipe, and further has a transverse segment that extends from said elongated segment in said transverse direction and that is connected to said air conduit.

5 4. The incinerator of Claim 3, wherein said feed-delivering conduit has a laterally extending segment that extends in said transverse direction through said furnace, and that has a feed-discharging end disposed in said combustion chamber and opening  
10 downwardly, said transverse segment of said air distributor being disposed above said feed-discharging end, said elongated segment of said air distributor extending upwardly from said transverse segment in said longitudinal direction away from said  
15 feed-discharging end of said laterally extending segment of said feed-delivering conduit.

5. The incinerator of Claim 4, wherein said elongated segment of said air distributor has a top end, said furnace being formed with spaced apart first and  
20 second air inlets which are connected to said air conduit, said first air inlet being disposed at an elevation substantially the same as that of said top end of said elongated segment, said second air inlet being disposed at an elevation below said feed-discharging end of said laterally extending segment  
25 of said feed-delivering conduit.

6. The incinerator of Claim 1, wherein said air supply

includes a first air blower, said air distributor being in the form of an L-shaped pipe, and further having a transverse segment that extends from said elongated segment in said transverse direction and  
5 that is connected to said first air blower.

7. The incinerator of Claim 6, wherein said air supply further includes a second air blower and an air conduit that is connected to said furnace and said second air blower.

10 8. The incinerator of Claim 7, wherein said feed-delivering conduit has a laterally extending segment that extends in said transverse direction through said furnace, and that has a feed-discharging end disposed in said combustion chamber and opening  
15 downwardly, said transverse segment of said air distributor being disposed above said feed-discharging end, said elongated segment of said air distributor extending upwardly from said transverse segment in said longitudinal direction away from said  
20 feed-discharging end of said laterally extending segment of said feed-delivering conduit.

9. The incinerator of Claim 8, wherein said elongated segment of said air distributor has a top end, said furnace being formed with spaced apart first and  
25 second air inlets which are connected to said air conduit, said first air inlet being disposed at an elevation substantially the same as that of said top

end of said elongated segment, said second air inlet being disposed at an elevation below said feed-discharging end of said laterally extending segment of said feed-delivering conduit.